



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1208240  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1208240

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

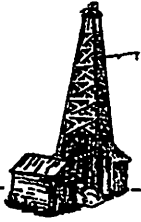
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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**WHITEHALL EXPLORATION**

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**WELLSITE GEOLOGICAL CONSULTING**

**GEOLOGICAL ANALYSIS & WELL REPORT**

**H & M Petroleum Corp.**

**TRIPLE CREEK No. 7**

**2,310' FSL & 1,320' FEL**

**C-N/2-N/2-SE**

**Section 36 - Township 11 South - Range 23 West  
Trego County, Kansas**

**July 26, 2011**

## GENERAL INFORMATION

Elevation: G.L. 2,418' K.B. 2,423'  
All measurements are from K.B.

Field: Bin Southwest

Drilling Contractor/Rig No.: WW Drilling/Rig 8

Total Depth: RTD: 4,150' LTD: 4,149'

Surface Casing: 8 5/8" set @ 220'

Production Casing: 4 1/2" et @ 4,146'

Drill Time Kept: 3,400'-4,150' RTD

Samples Examined: 3,400'-4,150' RTD

Geological Supervision: 3,400'-4,150' RTD

Wellsite Geologist: Randy Say  
Consulting Wellsite Geologist

Drill Stem Tests: 1) Lansing "F" Zone - Open hole test  
2) Kansas City "H"-**"K" Zone's** - Open hole test  
4) Marmaton - Open hole test  
5) Arbuckle - Open hole test

Mud Company/Mud Type/Engineer: Morgan Mud/Chemical/

Electric Logging Company: Log-Tech

Log Suite Run: -Dual Induction  
-Neutron/Density Porosity  
-Microlog  
-Sonic

Samples: Dry cut to Richard Hall

Total Depth Formation: Arbuckle

Well Status: Production casing set to production test the  
Lansing "F" Zone and Marmaton Formations

## DAILY DRILLING CHRONOLOGY

<u>2011 Date</u>	<u>7:00 A.M. Depth</u>	<u>24 Hour Footage</u>	<u>7:00 A.M. Operation; 24 Hour Activity</u>
07/11/11	0	0	MIRU; spud 12¼" hole @ 1:45 P.M., drilling to 221', circ., drop dev. survey, TOO H, run 5 jts 8 5/8" surf. csg. set @ 220' w/150 sx (Quality) cement, cement did circ., WOC 8', drill out plug – drilling ahead w/7 7/8" bit.
07/12/11	750'	750'	Drilling ahead; jet and drilling.
07/13/11	2,672'	1,922'	Drilling ahead; jet and drilling, displace hole/mud up @ 2,966' (700 bbls), drilling, jet, drilling.
07/14/11	3,465'	793'	Drilling ahead; CFS @ 3,680', drilling ahead; CFS, drilling, CFS, drilling, CFS @ 3,760', short trip (2.25'), circ. 1', drop dev. survey, TOO H strapping pipe, pick up test tool, TIH, run DST No. 1.
07/15/11	3,760'	295'	Running DST No. 1; TOO H, lay down test tool, TIH w/bit, drilling, CFS, drilling, CFS @ 3,854', drilling, CFS @ 3,882', TOO H, pick up test tool, TIH, run DST No. 2.
07/16/11	3,882'	122'	Running DST No. 2; TOO H, lay down test tool, TIH w/bit, drilling, CFS @ 4,030', TOO H, pick up test tool, TIH, run DST No. 3, TOO H, lay down test tool, TIH w/bit, drilling.
07/17/11	4,070'	188'	Drilling ahead; CFS @ 4,100', TOO H, pick up test tool, TIH, run DST No. 4, TOO H, lay down test tool, TIH w/bit, drilling, reach 4,150' RTD (avg. 48.1'/hr w/ 7 7/8" bit), circ., drop dev. survey, TOO H w/bit, rig up loggers, run open hole logs.
07/18/11	4,150'	80'	Logging; rig down loggers, WOO, TIH, circ., WO prod. csg, TOO H laying down drill pipe, rig up csg. crew and run 99 jts 4½" prod. csg. set @ 4,146', cement 1 <sup>st</sup> stage w/180 sx, cement 2 <sup>nd</sup> stage w/240 sx (Swift).
07/19/11	4,150'	0'	Cementing prod. csg.; cement rat hole, plug down @ 8:00 A.M., rig released @ 10:00 A.M. 07/19/2011.

## DEVIATION SURVEYS

<u>Depth</u>	<u>Deviation (Degrees)</u>
221'	0.50
3,760'	0.75
4,150' RTD	0.75

## REFERENCE WELLS

- Reference Well "A":  
Vanmax Exploration  
Brandenburg No. 1  
NE-SE-NE  
Section 36-T11S-R23W  
Trego County, Kansas  
KB: 2,408'  
RTD: 4,152'  
Date Drilled: July, 1985  
TD Formation: Arbuckle  
Status: Marmaton Fm. oil well
- Reference Well "B":  
Vanmax Exploration  
Hinshaw No. 1  
NE-NE-SE  
Section 36-T11S-R23W  
Trego County, Kansas  
KB: 2,420'  
RTD: 4,152'  
Date Drilled: June, 1984  
TD Formation: Arbuckle  
Status: Marmaton Fm. oil well-P & A
- Reference Well "B":  
Bankoff Oil  
Butcher No. 1  
SW-SW-NW  
Section 36-T11S-R23W  
Trego County, Kansas  
KB: 2,403'  
TD: 4,771'  
Date Drilled: March, 1976  
TD Formation: Kansas City  
Status: Dry & Abandoned

### FORMATION TOPS

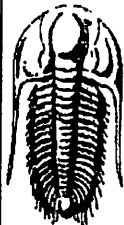
	TRIPLE CREEK No. 7			Brandenburg No. 1	Hinshaw No. 1	Butcher No. 1			
FORMATION	SAMPLE	LOG		REFERENCE	REFERENCE	REFERENCE	DIFFERENCE TO		
	TOPS	TOPS	DATUM	WELL "A"	WELL "B"	WELL "C"	WELL "A"	WELL "B"	WELL "C"
<b>PERMIAN</b>									
Stone Corral Anhydrite	1857	1855	+568	NA	+566	+571	NA	+2	-3
<b>PENNSYLVANIAN</b>									
Topeka	3420	3418	-995	NA	-1000	NA	NA	+5	NA
Heebner Shale	3636	3636	-1213	-1212	-1217	-1219	-1	+4	+6
Lansing "A"	3670	3670	-1247	-1250	-1254	-1257	+3	+7	+10
Lansing "F"	3754	3757	-1334	-1332	-1336	NDE	-2	+2	NA
Muncie Creek Shale	3800	3800	-1377	-1376	-1380	NDE	-1	+3	NA
Base/Kansas City	3908	3907	-1484	-1485	-1482	NDE	+1	-2	NA
Marmaton	4006	4006	-1583	-1580	-1580	NDE	-3	-3	NA
<b>ORDIVICIAN</b>									
Arbuckle	4086	4107	-1684	-1686	-1668	NDE	+2	-16	NA

## ZONES OF INTEREST

<u>Formation</u>	<u>Log Depth</u>	<u>Lithologic &amp; Show Descriptions, Remarks</u>
Lansing "F"	3,948'-3,956'	<p>Limestone, tan-cream, very fine crystalline-granular, friable-firm, occasional dolomitic and grainstone development, slightly cherty in part, scattered fossil and pyrite, fair-poor (chalky) porosity, VERY GOOD SHOW: very slight gassy odor, good medium-bright yellow fluorescence-40%, uneven oil stain-20%, good show free live brown oil/break, immediate streaming medium yellow live cut, light tan dried ring/halo fluorescence.</p> <p>Drill Stem Test No. 1 isolated the Lansing "F" Zone on an open hole test and on a 45 minute total flow period recovered 405 feet of gas in pipe and 140 feet of total fluid consisting of: 45 feet of free gassy oil (20% gas, 80% oil, 37 degree API gravity), 65' of very gassy oil (40% gas, 60% oil), and 30 feet of gassy mud cut oil (45% gas, 35% oil, 20% mud) with flow pressures of 20-33 and 44-58 p.s.i. and shut-in pressures of 363-350 p.s.i.</p> <p>Log-Tech open hole logs show this zone has a very clean gamma ray signature, fair SP development, maximum 4-6% neutron porosity, 5-15% density porosity, maximum 3% sonic porosity, 4 feet of microlog development (3,757-3,761 feet), and has a maximum deep resistivity of 36 ohms.</p>
Marmaton	4,029'-4,037'	<p>Limestone, light gray in part-predominately tan to cream, micro crystalline, firm-hard/dense, cherty, chalky, slightly fossiliferous, pyrite inclusions, poor tight inter-crystalline porosity, INTERMEDIATE SHOW: moderate oil odor, medium yellow fluorescence-10%, trace dark brown spotty oil stain, light yellow slow crush cut-10%, light tan residual dried ring/halo fluorescence.</p> <p>The Marmaton Formation was isolated on Drill Stem Test No. 3 and recovered 1 foot of fluid consisting of oil cut mud (20% oil, 80% mud) with flow pressures of 13-16 and 18-24 p.s.i. and shut-in pressures of 38-36 p.s.i.</p> <p>Log-Tech open hole logs show this formation has a moderately clean gamma ray signature, fair SP</p>



development, maximum 9-10% neutron porosity, maximum 15% density porosity, 10-14% sonic porosity, 5 feet of microlog development (4,020-4,025 feet), and has a maximum deep resistivity of 18 ohms.



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

H&M Petroleum Corp.  
13570 Meadow grass  
Dr STE 120 Colorado springs  
CO 80921  
ATTN: Randy

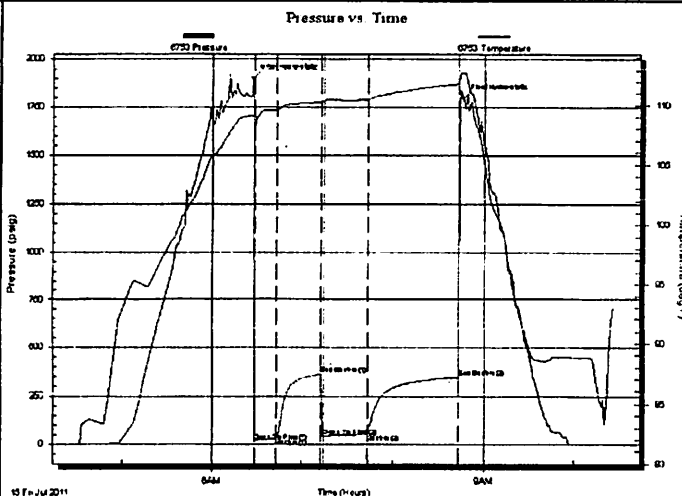
**Triplecreek #7**  
**36-11-23, Trego, KS**  
Job Ticket: 43915      DST#: 1  
Test Start: 2011.07.15 @ 04:30:10

## GENERAL INFORMATION:

Formation: KC"F"  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 06:28:40  
Time Test Ended: 10:26:40  
Interval: 3740.00 ft (KB) To 3760.00 ft (KB) (TVD)  
Total Depth: 3760.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches      Hole Condition: Fair  
Test Type: Conventional Bottom Hole  
Tester: Brett Dickinson  
Unit No: 47  
Reference Elevations: 2423.00 ft (KB)  
2418.00 ft (CF)  
KB to GR/CF: 5.00 ft

Serial #: 6753      Outside  
Press@RunDepth: 58.04 psig @ 3744.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2011.07.15      End Date: 2011.07.15      Last Calib.: 2011.07.15  
Start Time: 04:30:10      End Time: 10:26:40      Time On Btm: 2011.07.15 @ 06:27:10  
Time Off Btm: 2011.07.15 @ 08:46:10

TEST COMMENT: IF-BOB in 9min  
IS-No blow  
FF-BOB in 12min  
FSI-1/2in blow died in 35min



## PRESSURE SUMMARY

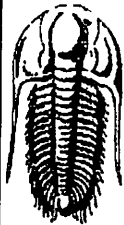
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1899.98	109.10	Initial Hydro-static
15	19.79	108.17	Open To Flow (1)
16	33.29	109.59	Shut-In(1)
30	46	110.22	End Shut-In(1)
47	44.19	110.39	Open To Flow (2)
30	76	110.50	Shut-In(2)
60	136	111.81	End Shut-In(2)
139	1796.34	112.74	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	GMCO 45%G 35%O 20%M	0.15
65.00	VGO 40%G 60%O	0.32
45.00	GO 20%G 80%O	0.38
0.00	405ft GIP	0.00

## Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)



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TESTING, INC**

# DRILL STEM TEST REPORT

H&M Petroleum Corp.  
13570 Meadow grass  
Dr STE 120 Colorado springs  
CO 80921  
ATTN: Randy

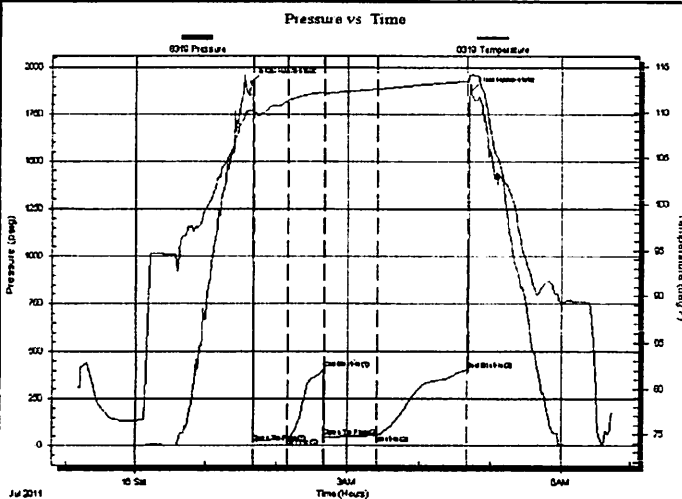
**Triplecreek #7**  
**36-11-23, Trego, KS**  
Job Ticket: 43916      **DST#: 2**  
Test Start: 2011.07.15 @ 23:10:22

## GENERAL INFORMATION:

Formation: **KC"H-K"**  
Deviated: **No** Whipstock: **ft (KB)**  
Time Tool Opened: **01:40:52**  
Time Test Ended: **06:44:22**  
Interval: **3792.00 ft (KB) To 3882.00 ft (KB) (TVD)**  
Total Depth: **3882.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
Test Type: **Conventional Bottom Hole**  
Tester: **Brett Dickinson**  
Unit No: **47**  
Reference Elevations: **2423.00 ft (KB)**  
**2418.00 ft (CF)**  
KB to GR/CF: **5.00 ft**

Serial #: **8319** Inside  
Press@RunDepth: **57.48 psig @ 3796.00 ft (KB)** Capacity: **8000.00 psig**  
Start Date: **2011.07.15** End Date: **2011.07.16** Last Calib.: **2011.07.16**  
Start Time: **23:10:22** End Time: **06:44:22** Time On Btrr: **2011.07.16 @ 01:38:52**  
Time Off Btrr: **2011.07.16 @ 04:43:22**

TEST COMMENT: IF-.25in blow  
IS-No blow  
FF-.25in blow  
FSI-No blow



## PRESSURE SUMMARY

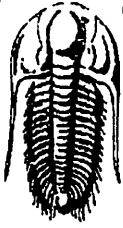
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1921.57	110.22	Initial Hydro-static
2	17.23	109.68	Open To Flow (1)
30	31	111.28	Shut-In(1)
30	62	112.23	End Shut-In(1)
45	63	112.11	Open To Flow (2)
75	107	112.58	Shut-In(2)
75	182	113.45	End Shut-In(2)
185	1876.48	114.11	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
69.00	V SOWCM 5% O 10% W 85% M	0.34
1.00	Free oil	0.00

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



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Dr STE 120 Colorado springs  
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ATTN: Randy

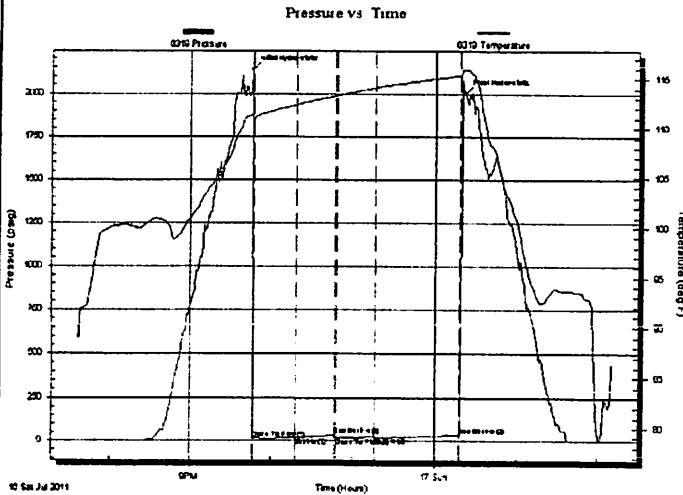
**Triplecreek #7**  
**36-11-23, Trego, KS**  
Job Ticket: 43917      DST#: 3  
Test Start: 2011.07.16 @ 19:35:55

## GENERAL INFORMATION:

Formation: **Marmaton**  
Deviated: **No Whipstock:**      ft (KB)  
Time Tool Opened: **21:46:55**  
Time Test Ended: **02:10:55**  
Interval: **4018.00 ft (KB) To 4030.00 ft (KB) (TVD)**  
Total Depth: **4030.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
Test Type: **Conventional Bottom Hole**  
Tester: **Brett Dickinson**  
Unit No: **47**  
Reference Elevations: **2423.00 ft (KB)**  
**2418.00 ft (CF)**  
KB to GR/CF: **5.00 ft**

**Serial #: 8319**      Inside  
Press@RunDepth: **23.99 psig @ 4019.00 ft (KB)**  
Start Date: **2011.07.16**      End Date: **2011.07.17**  
Start Time: **19:35:55**      End Time: **02:10:55**  
Capacity: **8000.00 psig**  
Last Calib.: **2011.07.17**  
Time On Btm: **2011.07.16 @ 21:45:55**  
Time Off Btm: **2011.07.17 @ 00:21:25**

**TEST COMMENT:** IF-Very weak surface blow died in 7min  
IS-No blow  
FF-No blow  
FS-No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2136.97	111.51	Initial Hydro-static
30 1	13.06	110.52	Open To Flow (1)
30 32	16.45	112.37	Shut-In(1)
30 61	37.53	113.28	End Shut-In(1)
30 62	17.56	113.33	Open To Flow (2)
30 90	23.99	114.10	Shut-In(2)
60 152	36.43	115.37	End Shut-In(2)
156	2001.90	115.89	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	OCM 20%O 80%M	0.00

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



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H&M Petroleum Corp.

13570 Meadow grass  
Dr STE 120 Colorado springs  
CO 80921  
ATTN: Randy

**Triplecreek #7**

**36-11-23, Trego, KS**

Job Ticket: 43918

DST#: 4

Test Start: 2011.07.17 @ 11:55:03

## GENERAL INFORMATION:

Formation: Arb

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:32:33

Time Test Ended: 17:08:33

Interval: 4076.00 ft (KB) To 4100.00 ft (KB) (TVD)

Total Depth: 4100.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Reference Elevations: 2423.00 ft (KB)

2418.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8319 Inside

Press@RunDepth: 22.56 psig @ 4084.00 ft (KB)

Start Date: 2011.07.17

End Date:

2011.07.17

Capacity: 8000.00 psig

Last Calib.: 2011.07.17

Start Time: 11:55:03

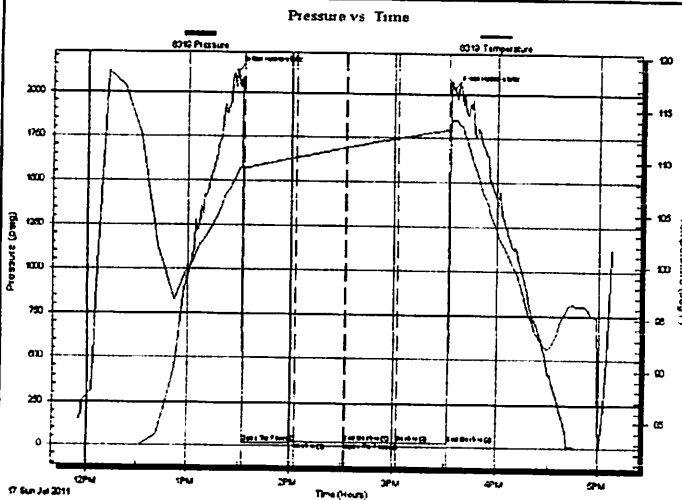
End Time:

17:08:33

Time On Btm: 2011.07.17 @ 13:28:33

Time Off Btm: 2011.07.17 @ 15:34:33

TEST COMMENT: IF-No blow  
IS-No blow  
FF-No blow  
FSI-No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2119.57	108.83	Initial Hydro-static
30 4	16.25	109.26	Open To Flow (1)
30 35	20.97	110.38	Shut-in(1)
30 63	23.09	111.34	End Shut-in(1)
30 64	21.66	111.35	Open To Flow (2)
30 94	22.56	112.29	Shut-in(2)
30 123	23.42	113.12	End Shut-in(2)
126	2028.12	114.08	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	Oilspotted mud	0.00

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

## SUMMARY

The Triple Creek No. 7 location was based on interpretation of the Triple Creek Prospect 3-D seismic data survey which covered all of Section 36-T11S-R23W (640 acres). The seismic indicated a significant, but small, structural closure located in the northern part of the SE/4-Section 36-T11S-R23W.

The well location is less than 1/4 of a mile west of the Vanmax Exploration Hinshaw No. 1 (NE-NE-SE-Section 36-T11S-R23W), an abandoned Marmaton Formation oil well which produced 7,055 BO from 1984 to 1993 and is slightly more than ¼ mile southwest of the Vanmax Exploration Brandenburg No. 1 (NE-SE-NE-Section 36-T11S-R23W), an inactive Marmaton Formation oil well that has produced 17,117 BO to date since 1985.

The 3-D seismic indicated the Triple Creek No. 7 location should encounter the primary objective Lansing/Kansas City Group and Marmaton Formation's significantly higher structurally to the Vanmax Exploration Brandenburg No.1 and Hinshaw No. 1 oil wells. Post drilling log analysis confirms that the Triple Creek No. 7 gained only moderate structural gain to the Brandenburg No.1 and Hinshaw No.1 offset wells (+3 feet and +7 feet, respectively) at the Top/Lansing and near flat at the Base/Kansas City (+1 foot and -2 feet, respectively), before running -3 feet low to both the Brandenburg No.1 and Hinshaw No. 1 wells at the Top/Marmaton Formation. Despite the structural position of the Triple Creek No. 7 relative to the offsetting correlation wells, a drill stem test of the Lansing "F" Zone recovered gas in pipe and water free gassy oil in a stratigraphic trap.

The Triple Creek No. 7 test well is located in north central Trego County, Kansas approximately 3 miles east and 1.5 miles north of Wakeeney, Kansas. It is located 3.5 miles north of I-70.

The primary objectives in the Triple Creek No. 7 included the Lansing "A" and "F" Zone's, the Kansas City "J" and "K" Zone's, and the Marmaton Formation. Secondary objectives included the remaining Lansing/Kansas City Zone's, and the Arbuckle Formation.

Four (4) open hole drill stem test's were run in the Triple Creek No. 7. DST No. 1 isolated the Lansing "F" Zone and recovered 405 feet of gas in pipe and 140 feet of total fluid consisting of 45 feet of gassy oil, 65 feet of very gassy oil, and 30 feet of gassy mud cut oil with SIP's of 363-350 p.s.i. DST No. 2 tested the Kansas City "H"- "K" Zones and recovered 1 foot of free oil and 69 feet of very slightly oil & water cut mud (85% oil) and had SIP's of 409-404 p.s.i.. DST No. 3 isolated the Marmaton Formation and tested tight recovering 1 foot of oil cut mud with SIP's of 38-36 p.s.i. (Note: the Marmaton typically drill stem tests poorly in this area). DST No. 4 isolated the upper Arbuckle Formation and tested tight recovering 1 foot of oil spotted mud with SIP's of 23-23 p.s.i.

The Triple Creek No. 7 well was spudded on June 11, 2011, and 4 1/2" production casing was set on July 19, 2011 after reaching total depth in the Arbuckle Formation. No significant drilling problems were encountered during the drilling of this well.

The well was under 24-hour geological supervision from 3,400 feet to 4,150 feet RTD. Wet and dry drilling samples were caught by the drilling crews from 3,400 feet to 4,150 feet RTD at 10-foot intervals. All lithologic descriptions were lagged to true depth by the consulting wellsite geologist.

### **Hydrocarbon Shows**

Several significant oil sample shows were observed and recorded in the drill cuttings during the drilling of the Triple Creek No. 7 and included:

- |                        |                    |   |
|------------------------|--------------------|---|
| -Lansing "F" Zone:     | Very Good Show:    | very slight gassy odor, medium bright yellow fluorescence, uneven oil stain, good show free brown oil on break, immediate medium yellow streaming live, light tan dried ring/halo residual cut (Lansing "F" Zone isolated on DST No. 1) |
| -Kansas City "I" Zone: | Fair Show:         | light yellow fluorescence, uneven oil stain, slow milky live cut (Kansas City "I" Zone included on DST No. 2)   |
| -Kansas City "K" Zone: | Intermediate Show: | medium yellow fluorescence, trace brown oil stain, show light tan visual free oil, immediate light yellow live cut (Kansas City "K" Zone included on DST No. 2)   |
| -Kansas City "L" Zone: | Intermediate Show: | medium yellow fluorescence, uneven brown oil stain, show brown oil in vug, slow streaming to milky medium yellow live cut, tan dried halo cut (this zone was not drill stem tested)   |
| -Marmaton:             | Intermediate Show: | moderate oil odor, medium yellow very fluorescence, trace spotty dark brown oil stain, light yellow slow crush cut, light tan dried residual halo fluorescence (Marmaton isolated on DST No. 3)   |
| -Arbuckle:             | Intermediate Show: | medium yellow fluorescence, uneven oil stain, asphaltic spotted free oil, immediate slow streaming medium   |

yellow live cut, very light tan dried  
halo cut (Arbuckle isolated on DST  
No. 4)

Complete lithologic descriptions and hydrocarbon sample shows can be found in the detailed "Zones of Interest" portion of this geologic report. Complete Drill Stem Test fluid recovery results and pressures can be found in this report under "Drill Stem Tests".

### **Structural Position**

The Triple Creek No. 7 runs structurally mixed in relation to Reference Well's "A", "B", and "C".

Compared to Reference Well "A"/Vanmax Exploration Brandenburg No. 1, the Triple Creek No. 7 runs: -1 foot low at the Heebner Shale, +3 feet high at the Top/Lansing "A", -1 foot low at the Muncie Creek Shale, +1 foot high at the Base/Kansas City, -3 feet low at the Marmaton, and +2 feet high at the Arbuckle.

Compared to Reference Well "B"/Vanmax Exploration Hinshaw No. 1, the Triple Creek No. 7 runs: +2 feet high at the Stone Corral Anhydrite, +4 feet high at the Heebner Shale, +7 feet high at the Top/Lansing "A", +3 feet high at the Muncie Creek Shale, -2 feet low at the Base/Kansas City, -3 feet low at the Marmaton, and -16 feet low at the Arbuckle.

A complete structural comparison of the Formation Tops in this well, in relation to the Reference Wells, can be found in the detailed "Formation Tops" table in this geologic report.

### **Conclusion**

The Triple Creek No. 7 test well location was determined through a 640 acre 3-D seismic survey which indicated a structural closure located in the N/2 of the SE/4 of Section 36-T11S-R23W and up dip structurally from two abandoned/inactive Marmaton oil producers. Log-Tech logs confirm that the Triple Creek No. 7 location did not gain the structural position indicated by the 3-D seismic interpretation and actually runs structurally mixed (structurally high at some Formation's and structurally low at other Formation's) or approximately flat to the offsetting Reference Wells "A" and "B".

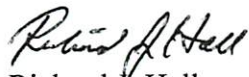
However, several free oil sample shows were observed in the Lansing "F" Zone, the Kansas City "K" and "L" Zone's, and the Arbuckle Formation with all of these free oil shows being included on one of the 4 drill stem tests.

DST No. 1 isolated the Lansing "F" Zone, and recovered 405 feet of gas in pipe and 140 feet of total fluid consisting of 45 feet of gassy oil (20% gas, 80% oil), 65 feet of very gassy oil (40% gas, 60% oil), and 30 feet of gassy mud cut oil (45% gas, 35% oil, 20% mud) with SIP's of 363-350 p.s.i. DST No. 2 (Kansas City "H"- "K" Zone's) recovered 1 foot of free oil and 69 feet of very slightly oil & water cut mud with SIP's of 409-404 p.s.i. DST No. 3 (Marmaton) and DST No. 4 (Arbuckle) both tested tight.



Based on the (water free) gassy oil fluid recovery on DST No. 1 from the Lansing "F" Zone and the proximity to Marmaton Formation oil production, 4½" production casing was set in the Triple Creek No. 7 to production test the commercial viability of the Lansing "F" Zone and the Marmaton Formation. The Kansas City "J" Zone should be tested through pipe prior to abandoning the well based on Log-Tech log analysis.

Respectfully Submitted,



Richard J. Hall

Certified Petroleum Geologist No. 5820

Whitehall Exploration



Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Shari Feist Albrecht, Chair  
Jay Scott Emler, Commissioner  
Pat Apple, Commissioner

Sam Brownback, Governor

June 24, 2014

KAREN ABSHER  
H & M Petroleum Corporation  
PO BOX 66  
PEYTON, CO 80831-0066

Re: ACO-1  
API 15-195-22718-00-00  
Triple Creek 7  
SE/4 Sec.36-11S-23W  
Trego County, Kansas

Dear KAREN ABSHER:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 07/11/2011 and the ACO-1 was received on June 18, 2014 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

No. 4872

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

Date	7.11.11	Sec.	36	Twp.	11	Range	23	County	Trego	State	KS	On Location		Finish	6:00pm
Lease	Triple Creek			Well No.	7			Location Wakarusa W 3E 1/2 N 42 1/2 T2D							
Contractor	WU #8							Owner: To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Type Job	Surface							Charge To H+M							
Hole Size	12 1/4			T.D.	221			Street							
Csg.	8 5/8			Depth	221			City							
Tbg. Size				Depth				State							
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contract							
Cement Left in Csg.	15			Shoe Joint				Cement Amount Ordered 150 cum 30/600 20/601							
Meas Line				Displace	1336										

**EQUIPMENT**

Pumptrk	No.	Cementer	Helper	Common
Bulktrk	9	Driver	Driver	Poz. Mix
Bulktrk	13	Driver	Driver	Gel.

**JOB SERVICES & REMARKS**

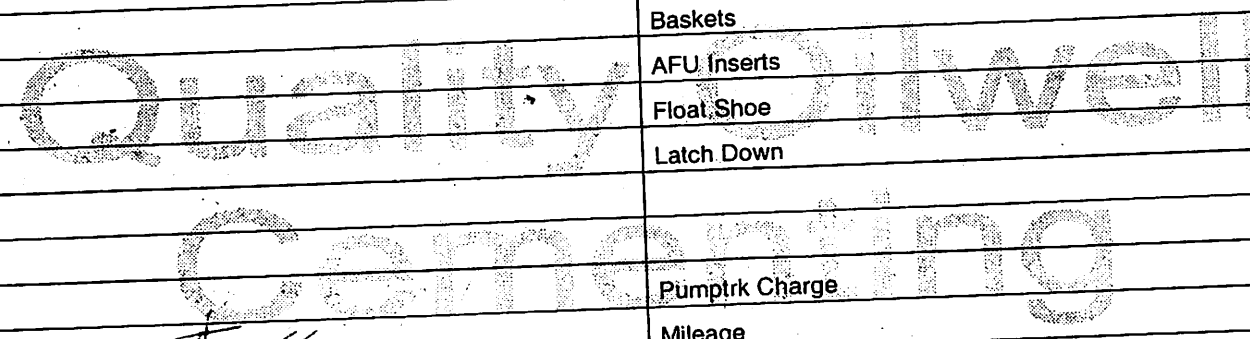
Remarks:	Calcium
Rat Hole	Hulls
Mouse Hole	Salt
Centralizers	Flowseal
Baskets	Kol-Seal
D/V or Port Collar	Mud CLR 48
8 5/8 on bottom for circulation	CFL-117 or CD110 CAF 38
Mix 150 30/600 20/601	Sand
Emergency Circulation	Handling
	Mileage

**FLOAT EQUIPMENT**

Guide Shoe
Centralizer
Baskets
AFU Inserts
Float Shoe
Latch Down

Pumptrk Charge	Tax
Mileage	Discount
	Total Charge

Signature: *[Handwritten Signature]*



**WW Drilling, LLC**  
**WaKeeney, KS**  
**Well Plugging Orders**

Operator: H & M Petroleum Corporation License # 34055  
Address: 13570 Meadowgrass Dr Ste 120, Colorado Springs CO 80921

API # 15-195-22718-00-00

Lease Name: Triple Creek #7  
Legals: 2310 FSL & 1320 FEL, Section 36-11s-23w  
County: Trego  
State: Kansas

Plug #	Sx.	Feet
1st	<u>25</u>	<u>@ 20' Above Arb.</u>
2nd	<u>25</u>	<u>@ 1880'</u>
3rd	<u>100</u>	<u>@ 1070'</u>
4th	<u>40</u>	<u>@ 275'</u>
5th	<u>10</u>	<u>@ 40'W/Wiper Plug</u>
Rathole	<u>30</u>	
Mousehole	<u>          </u>	

Total: 230

Type: 60/40 Poz - 4% Gel - 1/4 # per sx flo-seal

Spud Report: Bruce Rodie Date: 7/11/2011 Time: 10:00 AM

Orders From: Bruce Basye Date: 7/13/2011 Time: 8:45 AM

Reported to: David Wann Date: 7/20/2011 Time: 9:30 AM

Results: Ran 4 1/2. DV @ 1777

API # 15-195-22718-00-00

Operator: H & M Petroleum Corporation Well Name & No: Triple Creek #7  
 Locallon: 2310 FSL & 1320 FEL, Secllon 36-11s-23w County: Trego State: Kansas  
 Rig No.: 8 Contractor: WW Drilling, LLC Tool Pusher: Sid Deutscher 785-259-2382  
 Drill Collars: 14 Size: 6 1/4 x 2 1/4 Rig Phone: 785-259-0816  
 Make Pump: National K-380 Liner & Stroke: 6 x 14 Spud 7/11/11 @ 1:45 PM  
 Approx. TD: 4175 Elevation: 2418 K.B. 2423 KB Hole Complete: 07/17/2011@8:15PM  
 Mud Co.: Morgan Mud Mud Engineer: Dave Lines Water Sallne River

Date	07/11/11	07/12/11	07/13/11	07/14/11	07/15/11	07/16/11	07/17/11	07/18/11	07/19/11	07/20/11
Days	1-spud	2-drlg	3-drlg	4-drlg	5-dst#1	6-dst#	7-drlg	8-logging	9-cmt	10-done
Depth		750	2672	3465	3760	3882	4070	4150	4150	4150
Ft. Cut		750	1922	793	295	122	188	80	0	
D.T.										
D.T.		8-woc						3-Clutch		
C.T.					12	17	13.25	17	24 WOO	
Bit Wt.		10,000	30,000	35,000	35,000	35,000	35,000	35,000	35,000	
RPM		90	90	85	85	85	85	85	85	
Pressure		600	750	750	750	800	850	850	850	
SPM		60	60	60	60	60	60	60	60	
Mud Cost		650	4103	6717	7966	7966	8212	8625	8625	
Mud Wt.		8.8	9.4	8.9	9.1	9.1	9.2	9.3	9.3	
Viscosity		28		62	59	54	55	56	56	
Water Loss					6.8	7.2	7.2	6.8	6.8	
Chlorides					4400	4400	4400	4800	4800	
L.C.M.				1.5#	2#	2#	2#	3#	3#	
Dev. Sur		1/2"@221			3/4"@3760			3/4"@4150		
Fuel	2500	2400	3700	3350	3050	2850	2600	2400	2300	2250
Water-Pll		1 1/2	1-full, 1-0	1-F, 1-2'	1-f, 1-2'	1-f, 1-1'	1-f, 1-1'	1-full	2'	
ACC Bit Hrs.		5	27.75	50.25	62	69.25	80	84	84	
Formation	sd-sh	sd-sh	sd-sh	sh-lm	sh-lm	sh-lm	sh-lm	sh-lm	sh-lm	
Weather		clear	cloudy	clean	cloudy	cloudy	clear	clear	clear	

No.	Size	Type	Out	Ft.	Hrs.	Cum Hrs.	Bit Cond	Serial #	Tops
1	12 1/4	Smith	221	221	2.5	47.25	RR	AN 2019	
2	7 7/8	Sm - F-27	41503929	3849	84	86.25	New	PT 0300	48.1"Per Hr.
3									
4									

DEPTH	SIZE	SACKS	CEMENT MATERIAL	PLUG DOWN	DRILLED OUT	REMARKS
220	8 5/8	150	Common, 3% cc, 2% gel	6:00 AM	2:22 AM	Quality Did Circulate
4146	4 1/2	180	EA-2			
1777	DV	240	SMD	8:00AM		Swift Did Circulate

NO	INTERVAL	OPEN	SHUT	OPEN	SHUT	RECOVERY
1	3740-3760	15	30	30	60	140'GO, 400'GIP
2	3792-3882	30	30	45	75	1'CO, 65'OCM
3	4015-4030	30	30	30	60	1'Mud.
4	4076-4100	30	30	30	60	1'Mud.
5						
6						
7						
8						
9						

Surface Casing Furnished by: Midwestern Pipeworks: 5 jts 8 5/8 X 23# X 214.08 Set @ 220'

Remarks: Strap & weld surface by WW(Sage), Anhydrite 1857-1901, Displaced@2966'(700bbls.), Pipe Strap@3760'  
Strap long 0.9', Short Trip @3760 2.25Hrs.(11:00PM-01:15AM), Logged By Log-Tech. LTD 4149'RTD 4150', Ran 99 Jts.  
4 1/2 Set @ 4146'. 1st Stage W/180sx EA-2, 2nd Stage W/240sx SMD, 30sx SMD @ the rat hole. Plug Down @ 8:00  
AM, Rig Released @ 10:00 AM 07/19/2011.



API # 15-195-22718-00-00

Operator: H & M Petroleum Corporation Well Name & No: Triple Creek #7  
 Location: 2310 FSL & 1320 FEL, Section 36-11s-23w County: Trego State: Kansas  
 Rlg No.: 8 Contractor: WW Drilling, LLC Tool Pusher: Sid Deutscher 785-259-2382  
 Drill Collars: 14 Size: 6 1/4 x 2 1/4 Rig Phone: 785-259-0818  
 Make Pump: National K-380 Liner & Stroke: 6 x 14 Spud 7/11/11 @ 1:45 PM  
 Approx. TD: 4175 Elevation: 2418 K.B. 2423 KB Hole Complete: 07/17/2011@8:15PM  
 Mud Co.: Morgan Mud Mud Engineer: Dave Lines Water Saline River

Date	07/11/11	07/12/11	07/13/11	07/14/11	07/15/11	07/16/11	07/17/11	07/18/11	07/19/11	07/20/11
Days	1-spud	2-drlg	3-drlg	4-drlg	5-dst#1	6-dst#	7-drlg	8-logging	9-cmt	10-done
Depth		750	2672	3465	3760	3882	4070	4150	4150	4150
Ft. Cut		750	1922	793	295	122	188	80	0	
D.T.										
D.T.		8-woc						3-Clutch		
C.T.					12	17	13.25	17	24 WOO	
Bit Wt.		10,000	30,000	35,000	35,000	35,000	35,000	35,000	35,000	
RPM		90	90	85	85	85	85	85	85	
Pressure		600	750	750	750	800	850	850	850	
SPM		60	60	60	60	60	60	60	60	
Mud Cost		650	4103	6717	7966	7966	8212	8625	8625	
Mud Wt.		8.8	9.4	8.9	9.1	9.1	9.2	9.3	9.3	
Viscosify		28		62	59	54	55	56	56	
Water Loss					6.8	7.2	7.2	6.8	6.8	
Chlorides					4400	4400	4400	4800	4800	
L.C.M.				1.5#	2#	2#	2#	3#	3#	
Dev. Sur		1/2"@221			3/4"@3760			3/4"@4150		
Dev. Sur										
Fuel	2500	2400	3700	3350	3050	2850	2600	2400	2300	2250
Water-Pit		1 1/2	1-full,1-0	1-F,1-2'	1-f,1-2'	1-f,1-1'	1-f,1-1'	1-full	2'	
ACG Bit Hrs.		5	27.75	50.25	62	69.25	80	84	84	
Formation	sd-sh	sd-sh	sd-sh	sh-lm	sh-lm	sh-lm	sh-lm	sh-lm	sh-lm	
Weather		clear	cloudy	clean	cloudy	cloudy	clear	clear	clear	

No.	Size	Type	Out	Ft.	Hrs.	Cum Hrs.	Bit Cond	Serial #	Tops
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3	4015-4030	30	30	30	60	1'Mud.
4	4076-4100	30	30	30	60	1'Mud.
5						
6						
7						
8						
9						

Surface Casing Furnished by: Midwestern Pipeworks: 5 jts 8 5/8 X 23# X 214.08 Set @ 220'  
 Remarks: Strap & weld surface by WW(Sage), Anhydrite 1857-1901, Displaced@2966'(700bbls.), Pipe Strap@3760'  
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 Drill Collars: 14 Size: 6 1/4 x 2 1/4 Rig Phone: 785-259-0816  
 Make Pump: National K-380 Liner & Stroke: 6 x 14 Spud 7/11/11 @ 1:45 PM  
 Approx. TD: 4175 Elevation: 2418 K.B. 2423 KB Hole Complete: 07/17/2011@8:15PM  
 Mud Co.: Morgan Mud Mud Engineer: Dave Lines Water Saline River

Date	07/11/11	07/12/11	07/13/11	07/14/11	07/15/11	07/16/11	07/17/11	07/18/11	07/19/11	07/20/11
Days	1-spud	2-drlg	3-drlg	4-drlg	5-dst#1	6-dst#	7-drlg	8-logging	9-cmt	10-done
Depth		750	2672	3465	3760	3882	4070	4150	4150	4150
Ft. Cut		750	1922	793	295	122	188	80	0	
D.T.										
D.T.		8-woc						3-Clutch		
C.T.					12	17	13.25	17	24 WOO	
Bit Wt.		10,000	30,000	35,000	35,000	35,000	35,000	35,000	35,000	
RPM		90	90	85	85	85	85	85	85	
Pressure		600	750	750	750	800	850	850	850	
SPM		60	60	60	60	60	60	60	60	
Mud Cost		650	4103	6717	7966	7966	8212	8625	8625	
Mud Wt.		8.8	9.4	8.9	9.1	9.1	9.2	9.3	9.3	
Viscosity		28		62	59	54	55	56	56	
Water Loss					6.8	7.2	7.2	6.8	6.8	
Chlorides					4400	4400	4400	4800	4800	
L.C.M.				1.5#	2#	2#	2#	3#	3#	
Dev. Sur		1/2°@221			3/4°@3760			3/4°@4150		
Dev. Sur										
Fuel	2500	2400	3700	3350	3050	2850	2600	2400	2300	2250
Water-Pit		1 1/2	1-full, 1-0	1-F, 1-2'	1-f, 1-2'	1-f, 1-1'	1-f, 1-1'	1-full	2'	
ACC Bit Hrs.		5	27.75	50.25	62	69.25	80	84	84	
Formation	sd-sh	sd-sh	sd-sh	sh-lm	sh-lm	sh-lm	sh-lm	sh-lm	sh-lm	
Weather		clear	cloudy	clean	cloudy	cloudy	clear	clear	clear	

No.	Size	Type	Out	Ft.	Hrs.	Cum Hrs.	Bit Cond	Serial #	Tops
1	12 1/4	Smith	221	221	2.5	47.25	RR	AN 2019	
2	7 7/8	Sm - F-27	41503929	3849	84	86.25	New	PT 0300	48.1"Per Hr.
3									
4									

DEPTH	SIZE	SACKS	CEMENT MATERIAL	PLUG DOWN	DRILLED OUT	REMARKS
220	8 5/8	150	Common, 3% cc, 2% gel	6:00 AM	2:22 AM	Quality Did Circulate
4146	4 1/2	180	EA-2			
1777	DV	240	SMD	8:00AM		Swift Did Circulate

NO	INTERVAL	OPEN	SHUT	OPEN	SHUT	RECOVERY
1	3740-3760	15	30	30	60	140'GO, 400'GIP
2	3792-3882	30	30	45	75	1'CO, 65'OCM
3	4015-4030	30	30	30	60	1'Mud.
4	4076-4100	30	30	30	60	1'Mud.
5						
6		E:F			340'	CLEAN OIL ! CLEAN OIL W/ DRILLING FLUIDS
7						
8						PRESSURES ARE SIMILAR TO DOYLES DOME NO 1 450 PSI
9						

Surface Casing Furnished by: Midwestern Pipeworks: 5 jts 8 5/8 X 23# X 214.08 Set @ 220'  
 Remarks: Strap & weld surface by WW(Sage), Anhydrite 1857-1901, Displaced@2966'(700bbls.), Pipe Strap@3760' Strap long 0.9', Short Trip @3760 2.25Hrs.(11:00PM-01:15AM), Logged By Log-Tech. LTD 4149'RTD 4150', Ran 99 Jts. 4 1/2 Set @ 4146'. 1st Stage W/180sx EA-2, 2nd Stage W/240sx SMD, 30sx SMD @ the rat hole. Plug Down @ 8:00 AM, Rig Released @ 10:00 AM 07/19/2011.